

09/672,639

00AB154

SPECIFICATION AMENDMENT

- (1) Please replace the first full paragraph on page 44, lines 7-20, with the following:

A look up table or matrix in the grayscale generator 12 (or elsewhere in the raster engine 2, *e.g.*, in compare and register logic 4) may be programmed with values that define the on/off dithering operation for a pixel value based on value of one or more of the counters 270-280, as illustrated and described in greater detail hereinafter with respect to Figs. 20-30. A matrix size or dimension may be defined for each pixel value (*e.g.*, 0 through 7 for 3 bits). The matrix size may be from 3 horizontal rows x 3 vertical columns x 3 frames (*e.g.*, 3Hx3Vx3F) to 4H x 4V x 4F, or any combination of 3 or 4. It will be appreciated that while while the exemplary grayscale generator 12 provides for matrices varying from 3Hx3Vx3F to 4Hx4Vx4F, that the many different matrix sizes are possible, and are contemplated as being within the scope of the invention. The grayscale look up table is then filled in for each pixel with this matrix information. The grayscale generator 12 uses the programmed matrix to perform grayscale according to the selected display mode, which is particularly advantageous when employed in association with low cost or monochrome displays.